

```
CREATE TABLE Chemical
(CONSTRAINT ch_ch_pk PRIMARY KEY ( cas_no, chemical ) USING INDEX TABLESPACE
OEMEIDX
```

```
STORAGE ( INITIAL 16K NEXT 4K )
PCTFREE 10,
```

```

CHEMID          VARCHAR2(5),
CHEMICAL        VARCHAR2(60) CONSTRAINT ch_ch_nn NOT NULL,
CAS_NO          VARCHAR2(11) CONSTRAINT ch_cn_nn NOT NULL,
RTECS           VARCHAR2(30),
UNNO            VARCHAR2(4),
HAZLAB          VARCHAR2(30),
NFPA_H          VARCHAR2(1),
NFPA_F          VARCHAR2(1),
NFPA_R          VARCHAR2(1),
NFPA_S          VARCHAR2(18),
YN_EHS          VARCHAR2(1),
YN_313          VARCHAR2(1),
YN_CERCLA       VARCHAR2(1),
RQ              NUMBER(5),
TPQ             VARCHAR2(10),
RCRA            VARCHAR2(4),
AMB_STATE       VARCHAR2(1),
LOC             NUMBER(10,8),
CHEM_FLAG       VARCHAR2(1)  CONSTRAINT ch_cf_vl CHECK (CHEM_FLAG IN
('X','P') ),
YRLY_MAX        NUMBER(10,2)
)
TABLESPACE OEMEDAT STORAGE ( INITIAL 800K NEXT 16K );
```

```
CREATE TABLE ChemInv
(CONSTRAINT ci_bc_pk PRIMARY KEY ( bar_code ) USING INDEX TABLESPACE
OEMEIDX
```

```
STORAGE ( INITIAL 16K NEXT 4K )
PCTFREE 10,
```

```

BAR_CODE        VARCHAR2(5)  CONSTRAINT ci_bc_nn NOT NULL,
INV_DATE        DATE          CONSTRAINT ci_id_nn NOT NULL,
ROOM_NO         VARCHAR2(4)  CONSTRAINT ci_rn_fk REFERENCES
Location(room_no),
CUSTODIAN       NUMBER(5),
CAS_NO          VARCHAR2(11),
CHEMICAL        VARCHAR2(60) CONSTRAINT ci_ch_nn NOT NULL,
CHEM_FLAG       VARCHAR2(1)  CONSTRAINT ci_cf_vl CHECK (Chem_Flag IN ('X','P')
),
WEIGHT          NUMBER(7,2),
VOLUME          NUMBER(6,1),
DATE_RCD        DATE,
EXP_DATE        DATE,
DISPOSITION     VARCHAR2(1)  CONSTRAINT ci_di_vl CHECK (Disposition IN
```

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('S','D','I','E','U') ),
DISPOSITION_DATE  DATE,
STATE             VARCHAR2(1)  CONSTRAINT ci_st_vl CHECK (State IN ('S','L','G') ),
MFG_NO            NUMBER       CONSTRAINT ci_mn_fk REFERENCES
Manufacturer(mfg_no),
COMMENTS          VARCHAR2(60),
ADD_DATE          DATE,
ADD_USER          CHAR(8),
CHG_DATE          DATE,
CHG_USER          CHAR(8)
LOT_NUMBER        VARCHAR2(15),
PRODUCT_NUMBER    VARCHAR2(15)
)
TABLESPACE OEMEDAT STORAGE ( INITIAL 256K NEXT 16K );

```

```

CREATE TABLE Location
(CONSTRAINT lo_bc_pk PRIMARY KEY ( room_no ) USING INDEX TABLESPACE
OEMEIDX
                                STORAGE ( INITIAL 4K NEXT 4K )
                                PCTFREE 10,
ROOM_NO          VARCHAR2(4),
BUILDING         VARCHAR2(4)
)
TABLESPACE OEMEDAT STORAGE ( INITIAL 4K NEXT 4K );

```

```

CREATE TABLE Manufacturer
(CONSTRAINT mf_mn_pk PRIMARY KEY ( mfg_no ) USING INDEX TABLESPACE
OEMEIDX
                                STORAGE ( INITIAL 4K NEXT 4K )
                                PCTFREE 10,
MFG_NO           NUMBER,
MANUFACTURER     VARCHAR2(30)
)
TABLESPACE OEMEDAT STORAGE ( INITIAL 4K NEXT 4K );

```

```

drop SEQUENCE OEME.emfg;
CREATE SEQUENCE OEME.emfg INCREMENT BY 1 START WITH 108;

```

```

CREATE TABLE TRI_CHEM2004
(CONSTRAINT TRI_Ch_pk PRIMARY KEY ( cas_no, tri_primary_name ) USING INDEX
TABLESPACE OEMEIDX
                                STORAGE ( INITIAL 16K NEXT 4K )
                                PCTFREE 10,
CAS_NO           VARCHAR2(11),
TRI_PRIMARY_NAME VARCHAR2(200),
TRI_SECONDARY_NAME VARCHAR2(100)
)

```

TABLESPACE OEMEDAT STORAGE (INITIAL 256K NEXT 16K);

```
CREATE OR REPLACE TRIGGER ChemInv_Add
BEFORE
INSERT
ON ChemInv
FOR EACH ROW
BEGIN
  IF ( :NEW.add_date IS NULL ) THEN
    :NEW.add_date := SYSDATE;
  END IF;
  IF ( :NEW.add_user IS NULL ) THEN
    :NEW.add_user := R1USER;
  END IF;
END;
/
```

```
CREATE OR REPLACE TRIGGER ChemInv_Chg
BEFORE
UPDATE
ON ChemInv
FOR EACH ROW
BEGIN
  IF ( USER <> 'OEME' ) THEN
    :NEW.chg_date := SYSDATE;
    :NEW.chg_user := R1USER;
  END IF;
END;
/
```

```
GRANT INSERT ON cheminv      TO chem_user;
GRANT UPDATE ON cheminv      TO chem_user;
GRANT DELETE ON cheminv      TO chem_user;
GRANT SELECT ON cheminv      TO PUBLIC;
```

```
GRANT SELECT ON cheminv_hist TO PUBLIC;
```

```
GRANT INSERT ON manufacturer TO chem_user;
GRANT UPDATE ON manufacturer TO chem_user;
GRANT DELETE ON manufacturer TO chem_user;
GRANT SELECT ON manufacturer TO PUBLIC;
```

```
GRANT SELECT ON emfg         TO chem_user;
```

```
GRANT SELECT ON location     TO PUBLIC;
```

```
GRANT INSERT ON chemical     TO chem_user;
```

```
GRANT UPDATE ON chemical      TO chem_user;  
GRANT DELETE ON chemical      TO chem_user;  
GRANT SELECT ON chemical      TO PUBLIC;
```

```
ALTER TABLE ChemInv_Hist  
ADD CONSTRAINT ch_bc_pk PRIMARY KEY ( bar_code ) USING INDEX TABLESPACE  
OEMEIDX;
```